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795 800 805 810	
agg aag gcc cca ttt gtg gtt cga ggt ggc cgg cgg aaa gtg ctg gta	2499
Arg Lys Ala Pro Phe Val Val Arg Gly Gly Arg Arg Lys Val Leu Val	
815 820 825	
tct aca act ctg gag aac aga aag gaa aat gct tac aat acg agc ctg	2547
Ser Thr Thr Leu Glu Asn Arg Lys Glu Asn Ala Tyr Asn Thr Ser Leu	
830 835 840	

agt atc atc ttc tct aga aac ctc cac ctg gcc agt ctc act cct cag	2595
Ser Ile Ile Phe Ser Arg Asn Leu His Leu Ala Ser Leu Thr Pro Gln	
845 850 855	
aga gag agc cca ata aag gtg gaa tgt gcc gcc cct tct gct cat gcc	2643
Arg Glu Ser Pro Ile Lys Val Glu Cys Ala Ala Pro Ser Ala His Ala	
860 865 870	
cgg ctc tgc agt gtg ggg cat cct gtc ttc cag act gga gcc aag gtg	2691
Arg Leu Cys Ser Val Gly His Pro Val Phe Gln Thr Gly Ala Lys Val	
875 880 885 890	
acc ttt ctg cta gag ttt gag ttt agc tgc tcc tct ctc ctg agc cag	2739
Thr Phe Leu Leu Glu Phe Glu Phe Ser Cys Ser Ser Leu Leu Ser Gln	
895 900 905	
gtc ttt ggg aag ctg act gcc agc agt gac agc ctg gag aga aat ggc	2787
Val Phe Gly Lys Leu Thr Ala Ser Ser Asp Ser Leu Glu Arg Asn Gly	
910 915 920	
acc ctt caa gaa aac aca gcc cag acc tca gcc tac atc caa tat gag	2835
Thr Leu Gln Glu Asn Thr Ala Gln Thr Ser Ala Tyr Ile Gln Tyr Glu	
925 930 935	
ccc cac ctc ctg ttc tct agt gag tct acc ctg cac cgc tat gag gtt	2883
Pro His Leu Leu Phe Ser Ser Glu Ser Thr Leu His Arg Tyr Glu Val	
940 945 950	
cac cca tat ggg acc ctc cca gtg ggt cct ggc cca gaa ttc aaa acc	2931
His Pro Tyr Gly Thr Leu Pro Val Gly Pro Gly Pro Glu Phe Lys Thr	
955 960 965 970	
act ctc agg act aac aat gca agc tgc ata gtg cag aac ctg act gaa	2979
Thr Leu Arg Thr Asn Asn Ala Ser Cys Ile Val Gln Asn Leu Thr Glu	
975 980 985	
ccc cca ggc cca cct gtg cat cca gag gag ctt caa cac aca aac aga	3027
Pro Pro Gly Pro Pro Val His Pro Glu Glu Leu Gln His Thr Asn Arg	
990 995 1000	
ctg aat ggg agc aat act cag tgt cag gtg gtg agg tgc cac ctt ggg	3075
Leu Asn Gly Ser Asn Thr Gln Cys Gln Val Val Arg Cys His Leu Gly	
1005 1010 1015	
cag ctg gca aag ggg act gag gtc tct gtt gga cta ttg agg ctg gtt	3123
Gln Leu Ala Lys Gly Thr Glu Val Ser Val Gly Leu Leu Arg Leu Val	
1020 1025 1030	
cac aat gaa ttt ttc cga aga gcc aag ttc aag tcc ctg acg gtg gtc	3171
His Asn Glu Phe Phe Arg Arg Ala Lys Phe Lys Ser Leu Thr Val Val	
1035 1040 1045 1050	
agc acc ttt gag ctg gga acc gaa gag ggc agt gtc cta cag ctg act	3219
Ser Thr Phe Glu Leu Gly Thr Glu Glu Gly Ser Val Leu Gln Leu Thr	
1055 1060 1065	

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gaa gcc tcc cgt tgg agt gag agc ctc ttg gag gtg gtt cag acc cgg 3267
Glu Ala Ser Arg Trp Ser Glu Ser Leu Leu Glu Val Val Gln Thr Arg
      1070                      1075                      1080

cct atc ctc atc tcc ctg tgg atc ctc ata ggc agt gtc ctg gga ggg 3315
Pro Ile Leu Ile Ser Leu Trp Ile Leu Ile Gly Ser Val Leu Gly Gly
      1085                      1090                      1095

ttg ctc ctg ctt gct ctc ctt gtc ttc tgc ctg tgg aag ctt ggc ttc 3363
Leu Leu Leu Leu Ala Leu Leu Val Phe Cys Leu Trp Lys Leu Gly Phe
      1100                      1105                      1110

ttt gcc cat aag aaa atc cct gag gaa gaa aaa aga gaa gag aag ttg 3411
Phe Ala His Lys Lys Ile Pro Glu Glu Glu Lys Arg Glu Glu Lys Leu
      1115                      1120                      1125                      1130

gag caa tgaatgtaga ataaggggtct agaaagtcct ccctggcagc tttcttcaag 3467
Glu Gln

agacttgcat aaaagcagag gtttgggggc tcagatggga caagaagccg cctctggact 3527

atctccccag accagcagcc tgacttgact tttgagtcct agggatgctg ctggctagag 3587

atgaggcttt acctcagaca agaagagctg gcacaaaaac tagccatgct cccaccctct 3647

gcttccctcc tctcgtgat cctgggtcca tagccaacac tggggctttt gtttggggtc 3707

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cgatatcaag ct 3779

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<212> DNA
<213> Homo sapiens

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atc tcc gct ctg ctg ccg gct gtt gct cac ggt ggt aac tac ttc cta 97
Ile Ser Ala Leu Leu Pro Ala Val Ala His Gly Gly Asn Tyr Phe Leu
      20              25              30

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agc ttg tcc cag gtt atc agc ggc ctg gtg ccg cgc gga tcc ccc c 143
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 <212> PRT
 <213> Homo sapiens

<400> 4

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Phe	Pro	Gly	Pro	Pro	Glu	Ala	Glu	Phe	Gly	Tyr	Ser	Val	Leu	Gln	His
		35					40					45			
Val	Gly	Gly	Gly	Gln	Arg	Trp	Met	Leu	Val	Gly	Ala	Pro	Trp	Asp	Gly
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Pro	Ser	Gly	Asp	Arg	Arg	Gly	Asp	Val	Tyr	Arg	Cys	Pro	Val	Gly	Gly
	65				70					75					80
Ala	His	Asn	Ala	Pro	Cys	Ala	Lys	Gly	His	Leu	Gly	Asp	Tyr	Gln	Leu
				85					90					95	
Gly	Asn	Ser	Ser	His	Pro	Ala	Val	Asn	Met	His	Leu	Gly	Met	Ser	Leu
			100					105					110		
Leu	Glu	Thr	Asp	Gly	Asp	Gly	Gly	Phe	Met	Ala	Cys	Ala	Pro	Leu	Trp
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Ser	Arg	Ala	Cys	Gly	Ser	Ser	Val	Phe	Ser	Ser	Gly	Ile	Cys	Ala	Arg
	130					135					140				
Val	Asp	Ala	Ser	Phe	Gln	Pro	Gln	Gly	Ser	Leu	Ala	Pro	Thr	Ala	Gln
	145				150					155					160
Arg	Cys	Pro	Thr	Tyr	Met	Asp	Val	Val	Ile	Val	Leu	Asp	Gly	Ser	Asn
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Ser	Ile	Tyr	Pro	Trp	Ser	Glu	Val	Gln	Thr	Phe	Leu	Arg	Arg	Leu	Val
			180					185					190		
Gly	Lys	Leu	Phe	Ile	Asp	Pro	Glu	Gln	Ile	Gln	Val	Gly	Leu	Val	Gln
		195					200					205			
Tyr	Gly	Glu	Ser	Pro	Val	His	Glu	Trp	Ser	Leu	Gly	Asp	Phe	Arg	Thr
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Lys	Glu	Glu	Val	Val	Arg	Ala	Ala	Lys	Asn	Leu	Ser	Arg	Arg	Glu	Gly
	225				230					235					240
Arg	Glu	Thr	Lys	Thr	Ala	Gln	Ala	Ile	Met	Val	Ala	Cys	Thr	Glu	Gly
			245					250						255	
Phe	Ser	Gln	Ser	His	Gly	Gly	Arg	Pro	Glu	Ala	Ala	Arg	Leu	Leu	Val
			260				265						270		

Val	Val	Thr	Asp	Gly	Glu	Ser	His	Asp	Gly	Glu	Glu	Leu	Pro	Ala	Ala	
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Leu	Lys	Ala	Cys	Glu	Ala	Gly	Arg	Val	Thr	Arg	Tyr	Gly	Ile	Ala	Val	
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Leu	Gly	His	Tyr	Leu	Arg	Arg	Gln	Arg	Asp	Pro	Ser	Ser	Phe	Leu	Arg	
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Glu	Ile	Arg	Thr	Ile	Ala	Ser	Asp	Pro	Asp	Glu	Arg	Phe	Phe	Phe	Asn	
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Val	Thr	Asp	Glu	Ala	Ala	Leu	Thr	Asp	Ile	Val	Asp	Ala	Leu	Gly	Asp	
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Arg	Ile	Phe	Gly	Leu	Glu	Gly	Ser	His	Ala	Glu	Asn	Glu	Ser	Ser	Phe	
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Gly	Leu	Glu	Met	Ser	Gln	Ile	Gly	Phe	Ser	Thr	His	Arg	Leu	Lys	Asp	
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Gly	Ile	Leu	Phe	Gly	Met	Val	Gly	Ala	Tyr	Asp	Trp	Gly	Gly	Ser	Val	
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Leu	Trp	Leu	Glu	Gly	Gly	His	Arg	Leu	Phe	Pro	Pro	Arg	Met	Ala	Leu	
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Glu	Asp	Glu	Phe	Pro	Pro	Ala	Leu	Gln	Asn	His	Ala	Ala	Tyr	Leu	Gly	
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Tyr	Ser	Val	Ser	Ser	Met	Leu	Leu	Arg	Gly	Gly	Arg	Arg	Leu	Phe	Leu	
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Ser	Gly	Ala	Pro	Arg	Phe	Arg	His	Arg	Gly	Lys	Val	Ile	Ala	Phe	Gln	
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Leu	Lys	Lys	Asp	Gly	Ala	Val	Arg	Val	Ala	Gln	Ser	Leu	Gln	Gly	Glu	
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Gln	Ile	Gly	Ser	Tyr	Phe	Gly	Ser	Glu	Leu	Cys	Pro	Leu	Asp	Thr	Asp	
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Arg	Asp	Gly	Thr	Thr	Asp	Val	Leu	Leu	Val	Ala	Ala	Pro	Met	Phe	Leu	
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Gly	Pro	Gln	Asn	Lys	Glu	Thr	Gly	Arg	Val	Tyr	Val	Tyr	Leu	Val	Gly	
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Gln	Gln	Ser	Leu	Leu	Thr	Leu	Gln	Gly	Thr	Leu	Gln	Pro	Glu	Pro	Pro	
	530					535					540					
Gln	Asp	Ala	Arg	Phe	Gly	Phe	Ala	Met	Gly	Ala	Leu	Pro	Asp	Leu	Asn	
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Gln	Asp	Gly	Phe	Ala	Asp	Val	Ala	Val	Gly	Ala	Pro	Leu	Glu	Asp	Gly	
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His	Gln	Gly	Ala	Leu	Tyr	Leu	Tyr	His	Gly	Thr	Gln	Ser	Gly	Val	Arg	
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Pro	His	Pro	Ala	Gln	Arg	Ile	Ala	Ala	Ala	Ser	Met	Pro	His	Ala	Leu	
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Ser	Tyr	Phe	Gly	Arg	Ser	Val	Asp	Gly	Arg	Leu	Asp	Leu	Asp	Gly	Asp	
	610					615					620					
Asp	Leu	Val	Asp	Val	Ala	Val	Gly	Ala	Gln	Gly	Ala	Ala	Ile	Leu	Leu	
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Ser	Ser	Arg	Pro	Ile	Val	His	Leu	Thr	Pro	Ser	Leu	Glu	Val	Thr	Pro	
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Gln	Ala	Ile	Ser	Val	Val	Gln	Arg	Asp	Cys	Arg	Arg	Arg	Gly	Gln	Glu	
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Ala	Val	Cys	Leu	Thr	Ala	Ala	Leu	Cys	Phe	Gln	Val	Thr	Ser	Arg	Thr	
		675					680					685				
Pro	Gly	Arg	Trp	Asp	His	Gln	Phe	Tyr	Met	Arg	Phe	Thr	Ala	Ser	Leu	
	690					695					700					
Asp	Glu	Trp	Thr	Ala	Gly	Ala	Arg	Ala	Ala	Phe	Asp	Gly	Ser	Gly	Gln	
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Arg	Leu	Ser	Pro	Arg	Arg	Leu	Arg	Leu	Ser	Val	Gly	Asn	Val	Thr	Cys	
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Glu	Gln	Leu	His	Phe	His	Val	Leu	Asp	Thr	Ser	Asp	Tyr	Leu	Arg	Pro	
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Val	Ala	Leu	Thr	Val	Thr	Phe	Ala	Leu	Asp	Asn	Thr	Thr	Lys	Pro	Gly	
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Pro	Val	Leu	Asn	Glu	Gly	Ser	Pro	Thr	Ser	Ile	Gln	Lys	Leu	Val	Pro	
	770					775					780					
Phe	Ser	Lys	Asp	Cys	Gly	Pro	Asp	Asn	Glu	Cys	Val	Thr	Asp	Leu	Val	
785					790					795					800	
Leu	Gln	Val	Asn	Met	Asp	Ile	Arg	Gly	Ser	Arg	Lys	Ala	Pro	Phe	Val	
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Val	Arg	Gly	Gly	Arg	Arg	Lys	Val	Leu	Val	Ser	Thr	Thr	Leu	Glu	Asn	
			820					825					830			
Arg	Lys	Glu	Asn	Ala	Tyr	Asn	Thr	Ser	Leu	Ser	Ile	Ile	Phe	Ser	Arg	
		835					840					845				
Asn	Leu	His	Leu	Ala	Ser	Leu	Thr	Pro	Gln	Arg	Glu	Ser	Pro	Ile	Lys	
	850					855					860					
Val	Glu	Cys	Ala	Ala	Pro	Ser	Ala	His	Ala	Arg	Leu	Cys	Ser	Val	Gly	
865					870					875					880	

His Pro Val Phe Gln Thr Gly Ala Lys Val Thr Phe Leu Leu Glu Phe
 885 890 895
 Glu Phe Ser Cys Ser Ser Leu Leu Ser Gln Val Phe Gly Lys Leu Thr
 900 905 910
 Ala Ser Ser Asp Ser Leu Glu Arg Asn Gly Thr Leu Gln Glu Asn Thr
 915 920 925
 Ala Gln Thr Ser Ala Tyr Ile Gln Tyr Glu Pro His Leu Leu Phe Ser
 930 935 940
 Ser Glu Ser Thr Leu His Arg Tyr Glu Val His Pro Tyr Gly Thr Leu
 945 950 955 960
 Pro Val Gly Pro Gly Pro Glu Phe Lys Thr Thr Leu Arg Val Gln Asn
 965 970 975
 Leu Gly Cys Tyr Val Val Ser Gly Leu Ile Ile Ser Ala Leu Leu Pro
 980 985 990
 Ala Val Ala His Gly Gly Asn Tyr Phe Leu Ser Leu Ser Gln Val Ile
 995 1000 1005
 Thr Asn Asn Ala Ser Cys Ile Val Gln Asn Leu Thr Glu Pro Pro Gly
 1010 1015 1020
 Pro Pro Val His Pro Glu Glu Leu Gln His Thr Asn Arg Leu Asn Gly
 1025 1030 1035 1040
 Ser Asn Thr Gln Cys Gln Val Val Arg Cys His Leu Gly Gln Leu Ala
 1045 1050 1055
 Lys Gly Thr Glu Val Ser Val Gly Leu Leu Arg Leu Val His Asn Glu
 1060 1065 1070
 Phe Phe Arg Arg Ala Lys Phe Lys Ser Leu Thr Val Val Ser Thr Phe
 1075 1080 1085
 Glu Leu Gly Thr Glu Glu Gly Ser Val Leu Gln Leu Thr Glu Ala Ser
 1090 1095 1100
 Arg Trp Ser Glu Ser Leu Leu Glu Val Val Gln Thr Arg Pro Ile Leu
 1105 1110 1115 1120
 Ile Ser Leu Trp Ile Leu Ile Gly Ser Val Leu Gly Gly Leu Leu Leu
 1125 1130 1135
 Leu Ala Leu Leu Val Phe Cys Leu Trp Lys Leu Gly Phe Phe Ala His
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 1155 1160 1165

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 Phe Pro Gly Pro Pro Glu Ala Glu Phe Gly Tyr Ser Val Leu Gln His
 35 40 45
 Val Gly Gly Gly Gln Arg Trp Met Leu Val Gly Ala Pro Trp Asp Gly
 50 55 60
 Pro Ser Gly Asp Arg Arg Gly Asp Val Tyr Arg Cys Pro Val Gly Gly
 65 70 75 80
 Ala His Asn Ala Pro Cys Ala Lys Gly His Leu Gly Asp Tyr Gln Leu
 85 90 95
 Gly Asn Ser Ser His Pro Ala Val Asn Met His Leu Gly Met Ser Leu
 100 105 110
 Leu Glu Thr Asp Gly Asp Gly Gly Phe Met Ala Cys Ala Pro Leu Trp
 115 120 125
 Ser Arg Ala Cys Gly Ser Ser Val Phe Ser Ser Gly Ile Cys Ala Arg
 130 135 140
 Val Asp Ala Ser Phe Gln Pro Gln Gly Ser Leu Ala Pro Thr Ala Gln
 145 150 155 160
 Arg Cys Pro Thr Tyr Met Asp Val Val Ile Val Leu Asp Gly Ser Asn
 165 170 175
 Ser Ile Tyr Pro Trp Ser Glu Val Gln Thr Phe Leu Arg Arg Leu Val
 180 185 190
 Gly Lys Leu Phe Ile Asp Pro Glu Gln Ile Gln Val Gly Leu Val Gln
 195 200 205
 Tyr Gly Glu Ser Pro Val His Glu Trp Ser Leu Gly Asp Phe Arg Thr
 210 215 220
 Lys Glu Glu Val Val Arg Ala Ala Lys Asn Leu Ser Arg Arg Glu Gly
 225 230 235 240
 Arg Glu Thr Lys Thr Ala Gln Ala Ile Met Val Ala Cys Thr Glu Gly
 245 250 255
 Phe Ser Gln Ser His Gly Gly Arg Pro Glu Ala Ala Arg Leu Leu Val
 260 265 270

Val Val Thr Asp Gly Glu Ser His Asp Gly Glu Glu Leu Pro Ala Ala
 275 280 285
 Leu Lys Ala Cys Glu Ala Gly Arg Val Thr Arg Tyr Gly Ile Ala Val
 290 295 300
 Leu Gly His Tyr Leu Arg Arg Gln Arg Asp Pro Ser Ser Phe Leu Arg
 305 310 315 320
 Glu Ile Arg Thr Ile Ala Ser Asp Pro Asp Glu Arg Phe Phe Phe Asn
 325 330 335
 Val Thr Asp Glu Ala Ala Leu Thr Asp Ile Val Asp Ala Leu Gly Asp
 340 345 350
 Arg Ile Phe Gly Leu Glu Gly Ser His Ala Glu Asn Glu Ser Ser Phe
 355 360 365
 Gly Leu Glu Met Ser Gln Ile Gly Phe Ser Thr His Arg Leu Lys Asp
 370 375 380
 Gly Ile Leu Phe Gly Met Val Gly Ala Tyr Asp Trp Gly Gly Ser Val
 385 390 395 400
 Leu Trp Leu Glu Gly Gly His Arg Leu Phe Pro Pro Arg Met Ala Leu
 405 410 415
 Glu Asp Glu Phe Pro Pro Ala Leu Gln Asn His Ala Ala Tyr Leu Gly
 420 425 430
 Tyr Ser Val Ser Ser Met Leu Leu Arg Gly Gly Arg Arg Leu Phe Leu
 435 440 445
 Ser Gly Ala Pro Arg Phe Arg His Arg Gly Lys Val Ile Ala Phe Gln
 450 455 460
 Leu Lys Lys Asp Gly Ala Val Arg Val Ala Gln Ser Leu Gln Gly Glu
 465 470 475 480
 Gln Ile Gly Ser Tyr Phe Gly Ser Glu Leu Cys Pro Leu Asp Thr Asp
 485 490 495
 Arg Asp Gly Thr Thr Asp Val Leu Leu Val Ala Ala Pro Met Phe Leu
 500 505 510
 Gly Pro Gln Asn Lys Glu Thr Gly Arg Val Tyr Val Tyr Leu Val Gly
 515 520 525
 Gln Gln Ser Leu Leu Thr Leu Gln Gly Thr Leu Gln Pro Glu Pro Pro
 530 535 540
 Gln Asp Ala Arg Phe Gly Phe Ala Met Gly Ala Leu Pro Asp Leu Asn
 545 550 555 560
 Gln Asp Gly Phe Ala Asp Val Ala Val Gly Ala Pro Leu Glu Asp Gly
 565 570 575

His	Gln	Gly	Ala	Leu	Tyr	Leu	Tyr	His	Gly	Thr	Gln	Ser	Gly	Val	Arg	580	585	590
Pro	His	Pro	Ala	Gln	Arg	Ile	Ala	Ala	Ala	Ser	Met	Pro	His	Ala	Leu	595	600	605
Ser	Tyr	Phe	Gly	Arg	Ser	Val	Asp	Gly	Arg	Leu	Asp	Leu	Asp	Gly	Asp	610	615	620
Asp	Leu	Val	Asp	Val	Ala	Val	Gly	Ala	Gln	Gly	Ala	Ala	Ile	Leu	Leu	625	630	635
Ser	Ser	Arg	Pro	Ile	Val	His	Leu	Thr	Pro	Ser	Leu	Glu	Val	Thr	Pro	645	650	655
Gln	Ala	Ile	Ser	Val	Val	Gln	Arg	Asp	Cys	Arg	Arg	Arg	Gly	Gln	Glu	660	665	670
Ala	Val	Cys	Leu	Thr	Ala	Ala	Leu	Cys	Phe	Gln	Val	Thr	Ser	Arg	Thr	675	680	685
Pro	Gly	Arg	Trp	Asp	His	Gln	Phe	Tyr	Met	Arg	Phe	Thr	Ala	Ser	Leu	690	695	700
Asp	Glu	Trp	Thr	Ala	Gly	Ala	Arg	Ala	Ala	Phe	Asp	Gly	Ser	Gly	Gln	705	710	715
Arg	Leu	Ser	Pro	Arg	Arg	Leu	Arg	Leu	Ser	Val	Gly	Asn	Val	Thr	Cys	725	730	735
Glu	Gln	Leu	His	Phe	His	Val	Leu	Asp	Thr	Ser	Asp	Tyr	Leu	Arg	Pro	740	745	750
Val	Ala	Leu	Thr	Val	Thr	Phe	Ala	Leu	Asp	Asn	Thr	Thr	Lys	Pro	Gly	755	760	765
Pro	Val	Leu	Asn	Glu	Gly	Ser	Pro	Thr	Ser	Ile	Gln	Lys	Leu	Val	Pro	770	775	780
Phe	Ser	Lys	Asp	Cys	Gly	Pro	Asp	Asn	Glu	Cys	Val	Thr	Asp	Leu	Val	785	790	795
Leu	Gln	Val	Asn	Met	Asp	Ile	Arg	Gly	Ser	Arg	Lys	Ala	Pro	Phe	Val	805	810	815
Val	Arg	Gly	Gly	Arg	Arg	Lys	Val	Leu	Val	Ser	Thr	Thr	Leu	Glu	Asn	820	825	830
Arg	Lys	Glu	Asn	Ala	Tyr	Asn	Thr	Ser	Leu	Ser	Ile	Ile	Phe	Ser	Arg	835	840	845
Asn	Leu	His	Leu	Ala	Ser	Leu	Thr	Pro	Gln	Arg	Glu	Ser	Pro	Ile	Lys	850	855	860
Val	Glu	Cys	Ala	Ala	Pro	Ser	Ala	His	Ala	Arg	Leu	Cys	Ser	Val	Gly	865	870	875

His Pro Val Phe Gln Thr Gly Ala Lys Val Thr Phe Leu Leu Glu Phe
 885 890 895
 Glu Phe Ser Cys Ser Ser Leu Leu Ser Gln Val Phe Gly Lys Leu Thr
 900 905 910
 Ala Ser Ser Asp Ser Leu Glu Arg Asn Gly Thr Leu Gln Glu Asn Thr
 915 920 925
 Ala Gln Thr Ser Ala Tyr Ile Gln Tyr Glu Pro His Leu Leu Phe Ser
 930 935 940
 Ser Glu Ser Thr Leu His Arg Tyr Glu Val His Pro Tyr Gly Thr Leu
 945 950 955 960
 Pro Val Gly Pro Gly Pro Glu Phe Lys Thr Thr Leu Arg Thr Asn Asn
 965 970 975
 Ala Ser Cys Ile Val Gln Asn Leu Thr Glu Pro Pro Gly Pro Pro Val
 980 985 990
 His Pro Glu Glu Leu Gln His Thr Asn Arg Leu Asn Gly Ser Asn Thr
 995 1000 1005
 Gln Cys Gln Val Val Arg Cys His Leu Gly Gln Leu Ala Lys Gly Thr
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 Glu Val Ser Val Gly Leu Leu Arg Leu Val His Asn Glu Phe Phe Arg
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 Glu Ser Leu Leu Glu Val Val Gln Thr Arg Pro Ile Leu Ile Ser Leu
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 Trp Ile Leu Ile Gly Ser Val Leu Gly Gly Leu Leu Leu Leu Ala Leu
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<213> Homo sapiens

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Glu Glu Lys Leu Glu Gln
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<213> Homo sapiens

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primer

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<223> Inosine

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gayaayacng cncarac

17

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<212> PRT
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<220>
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18

<210> 12
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<210> 13
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<220>
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<220>
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<213> Bos taurus

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Ser Ile

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<213> Bos taurus

<400> 27

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<212> PRT

<213> Bos taurus

<400> 28

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<210> 30
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<400> 30
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			20					25					30		

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			35				40					45			

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 20 25 30

Leu Trp Pro Trp Asp Cys Gly Ala Val Trp Pro His Ile Leu His Ser
 35 40 45

Val Tyr Ser His Pro Asn Leu Ser Leu Xaa Thr Thr Gln Ala Xaa Thr
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Ala Arg Ile Ser
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Ser His Arg Cys Arg Leu Phe Glu Ala Ser Pro Leu Gly Leu Pro Gln
35 40 45

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Leu His Pro Ser Pro Ala Pro Ala Pro Gly Val Ala Asp Arg
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Ser Lys Pro Leu Tyr Leu Ile Ile
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Val Ser His Leu Pro Phe Gly Tyr Thr Asp Ser Tyr Leu Pro Cys Phe
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Ala Leu

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Gly Glu Arg Asn Gln
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Val Leu Arg Thr
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Ala Pro Pro Leu Ile Trp Met Asn Thr Thr His Asp Ser Ser Gln Gly
 35 40 45

His Gln Arg Pro Asn Leu Asp Thr Val Ser Tyr Ser Met Leu Gly Val
 50 55 60

Asp Ser Asp Gly Glu Arg Glu Asn Arg Gly Pro Trp Asp Arg Asp Tyr
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 35 40 45

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 20 25 30

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 35 40 45

Pro Ser Leu Val Ser Cys Leu Arg Gln Leu Cys Leu Gln Phe Trp Asn
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Pro Leu Leu Asn Met Pro Ser Val Ala Ile Gly Arg Ala
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Ser Ala His Leu Phe Phe Leu
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<210> 107
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<400> 107
 Phe Pro His Trp Gly Pro Gly Ile Val Leu Ser Trp
 1 5 10

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<400> 108
 Leu Arg Glu Asn Ser Leu Leu Ser Ala Cys Ile Ala Ala Ser Ser Trp
 1 5 10 15

Asp Ile Leu Pro Cys
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<210> 109
 <211> 68
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<400> 109
 Leu His Pro Thr Ser Phe His Val Phe Cys Phe Pro Ser Leu Cys Pro
 1 5 10 15

Pro Ser Arg Leu Ser His Ile His Gly Cys Arg His Cys Phe Gly Trp
 20 25 30

Leu Gln Gln Tyr Leu Ser Leu Val Arg Ser Ser Asp Phe Pro Ser Glu
 35 40 45

Ala Gly Arg Lys Thr Val His Arg Ser Gly Ala Asp Thr Gly Lys Arg
 50 55 60

Lys Ile Cys Gly
 65

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<400> 110
 Asp Trp Arg Glu Arg Ser Lys His Ser Trp Thr Leu Gly Cys Lys Gln
 1 5 10 15

Pro Cys Pro Ala Ser
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<210> 111
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<400> 111
 His Pro Gly Thr Leu Ser Ser Thr Glu Leu Met Leu Lys Asn Cys Ala
 1 5 10 15

Ile Asn Leu Pro Lys Ser His Lys Asn Phe Ile Met Phe Glu Val Ser
 20 25 30

Leu

<210> 112
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<400> 112
 Leu Cys Gly Gly Pro His Ser Glu Leu Pro Phe Ala Ala Cys Ser Cys
 1 5 10 15

Leu Gly Asn Ala Cys His Glu Leu Gln Val Arg His Thr Cys Ser Leu
 20 25 30

Pro Leu His Arg Ala Ala Gly Trp Thr His Leu Leu Gly Val His Phe
 35 40 45

Pro Phe Ile Leu Cys Ala Pro Ser Ser Leu Arg Ser Ser Tyr Ile Pro
 50 55 60

Cys Gly His Met Val Tyr Cys Ser Gln Val Gly Leu Val Gln Tyr Gly
 65 70 75 80

Glu Asn Pro Val His Glu Trp Ser Leu Gly Asp Phe Arg Thr Lys Glu
 85 90 95

Glu Val Val Arg Ala Ala Arg Asn Leu Ser Arg Arg Glu Gly Arg Glu
 100 105 110

Thr Arg Thr Ala Gln Ala Ile Met Val Ala Trp
 115 120

<210> 113

<211> 91

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<400> 113

Asp Ile Val Lys Gly Ser Cys Glu Gly Gly Gly Arg Ile Ser Arg Glu
 1 5 10 15

Arg Glu Arg Val Trp Ser Val Val Tyr Thr Ser Gln Asp Ala Leu Gly
 20 25 30

Ala Tyr Leu Tyr Leu His Ala Arg Ser Ser Trp Arg Lys Ala Arg Leu
 35 40 45

Leu Ser Pro Tyr Ser Leu Leu Leu Tyr Leu His Phe Met Val Ser Val
 50 55 60

Gly Val Ser Leu Leu Val Cys Ser Val Ser Ala His Arg Thr Pro Ser
 65 70 75 80

Phe Leu Phe Tyr Ser Cys Val Asn Ser Asp Thr
85 90

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Leu Leu Asn His Ser Arg Pro Ser Ile Leu Phe Lys His Asp Ser Lys
1          5          10          15
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Pro Leu Gly Arg Leu His Asp Leu Thr Val Phe Ile Leu Gln Phe Leu
20 25 30

Asp Leu Val Asn Pro Ser Val Cys
35 40

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<400> 115
Ile Asn Asn Ala Cys Thr Tyr Leu His
1          5
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<213> Homo sapiens
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<400> 116
Gln Ile Ile Leu Tyr Val Pro Cys His Leu Asn Ser Gln Val Val Thr
1           5           10           15
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Leu Cys Gln Phe Ala Cys
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<213> Homo sapiens
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<400> 117
Ile Leu Leu Gly Asn Gly Val Glu Asp Ile
1             5             10
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<210> 118
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 <213> Homo sapiens

<400> 118
 Thr Ala Asp Ser Val Asn Thr Leu Tyr Gly His Ala Cys Met Gln Ala
 1 5 10 15

Cys Val Tyr Val Cys His Ala Tyr Ala His Thr Tyr Ile
 20 25

<210> 119
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 119
 Pro Tyr Ser Ile Leu Leu Ser Leu Phe Leu Ala Gln Lys Gly Ser Val
 1 5 10 15

Ser Pro Gly Gly Asp Asp Gln Arg Pro Leu Gly Cys Trp
 20 25

<210> 120
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<400> 120
 Leu Ser Leu Met Glu Ser Pro Met Met Glu Arg Asn Phe Gln Gln Arg
 1 5 10 15

<210> 121
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<400> 121
 Arg Pro Val Arg Leu Ala Glu
 1 5

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<400> 122
 His Val Met Gly Leu Arg
 1 5

<210> 123
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<400> 123
 Asp Leu Ile Lys Ser Ser Cys Phe Val Leu Cys Cys Ile Val Cys Val
 1 5 10 15

Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr Val
 20 25 30

<210> 124
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 <212> PRT
 <213> Homo sapiens

<400> 124
 Tyr Val Cys Met His Gln Cys Thr Tyr His Ser Val Tyr Met Arg Val
 1 5 10 15

Arg Glu Gln Pro Gln Met Leu Val Leu Thr Phe His Leu Val Pro Asn
 20 25 30

Trp Ile Ser Cys Ser Leu Arg His Thr Ile Ser Gln Ile Ser
 35 40 45

<210> 125
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 125
 Pro Thr Ser Leu Gly Gln Val Phe Cys Leu Ser Leu Leu Ser Leu Gly
 1 5 10 15

Leu Arg His Ser Gly Ile Tyr Arg
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<210> 126
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 126
 Tyr Arg Ile Pro Ala Ala Arg Gly Ile His
 1 5 10

<210> 127
 <211> 7
 <212> PRT
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<400> 127
 Ser Gly Arg His Gln Gly Ser
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<400> 128
 Xaa Xaa Xaa His Xaa Xaa Xaa Arg Xaa Xaa Xaa Xaa Val Thr Xaa
 1 5 10 15

Leu Xaa Lys Xaa Xaa Ser Met Thr Xaa Gly Pro Arg
 20 25

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Xaa Xaa Ser Xaa Xaa Xaa Xaa Asp Asp Gly Pro Ala Xaa Arg Xaa Xaa
 1 5 10 15

Xaa Xaa Ala Xaa Xaa Val Gln Xaa Xaa Xaa Xaa Gly Thr Xaa Gly Xaa
 20 25 30

Ala Arg Xaa Pro
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<400> 130
 Gly Ser Gly Thr Met Xaa Xaa Arg Xaa Thr Xaa Xaa Asp Xaa Ser Xaa
 1 5 10 15

Val Gly Arg Arg Arg Asn Xaa Lys Val Xaa Val Xaa Xaa Xaa Xaa Gly
 20 25 30

Xaa Asp Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Gly Thr Gly Glu Xaa Xaa
 35 40 45

Xaa Val Ser Glu Glu Xaa Xaa Arg Thr Xaa Leu Pro Lys Ser Gly Leu
 50 55 60

Xaa Xaa Asp Thr Xaa Xaa Xaa Ser Xaa Xaa Gly Xaa Ser Glu Cys Xaa
 65 70 75 80

Asn Xaa Xaa Xaa Xaa Val Tyr Xaa Asn Xaa Lys Xaa Gly His Leu Leu
 85 90 95

Xaa Glu Glu Ser Ser Gln Ile Thr
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 Asp Asp Leu Xaa Trp Gly Pro Val Ala Ser Ile
 1 5 10

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 Glu Asp Trp Phe Gly Arg His Xaa Cys Ser Leu Leu Thr His Ile Leu
 1 5 10 15

Leu Pro

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 Ser Asp Thr Ile Xaa Cys Pro Ser Ser
 1 5

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Xaa Xaa Ala Val Met Leu Met Arg Phe Ala Tyr Asp Gly Thr Arg Asp
 1 5 10 15

Xaa Cys Tyr Ser Arg Arg Met Lys Val Ser Arg Val Gly Val Ser Gly
 20 25 30

Gly Glu Lys Leu Trp Thr Trp Arg Thr Arg Asp Ser Arg Arg Lys Xaa
 35 40 45

Pro Gln Leu Ala Xaa Ser Phe Gly Ser Asp Pro Asp Thr Gly Ser Ser
 50 55 60

Xaa Glu Leu Ser Pro Ser Leu Ala Gly Trp Leu Arg Asn Ala Trp Thr
 65 70 75 80

Phe Ser Ser Pro Leu Asp Lys Leu Gly Val Trp Arg Cys Gly Pro Gly
 85 90 95

Ile Val Gly Leu Cys Gly Leu Ile Ser Ser Ile Leu Ser Ile Leu Thr
 100 105 110

Leu Ile Cys Pro Trp Xaa Arg Leu Lys Pro Xaa Leu Thr Xaa Trp Tyr
 115 120 125

Lys Ile Arg Arg Glu Pro Arg Trp Val Arg Trp Lys Leu Arg Trp Xaa
 130 135 140

Thr Val Cys Xaa Pro His Cys Asn Ser Thr Xaa Leu Thr Glu Val Lys
 145 150 155 160

Ile Gln Ile Xaa Arg Asp Glu Gly Lys Asn Leu Pro Lys Thr Gly Gln
 165 170 175

Glu Gly Ser Ala Lys Gly Arg Leu Leu Gln Ala Ser Ala Val Gly Leu
 180 185 190

His Ser Val Pro Leu Pro Glu Ser His Ser Ser Ser Xaa Tyr Leu Ser
 195 200 205

Val Leu Ser Leu Val Lys Asn Leu Leu Pro Glu Thr Glu Phe Ser Phe
 210 215 220

Leu Ala Ser Trp Pro Asp Ile
 225 230

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<400> 135
 Lys Glu Gly Gly Gly Leu Leu Phe Gly Arg Gly Ser Leu Ser Tyr Gly
 1 5 10 15

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 Gln Ser Ala Asn Cys Ile Leu Phe Phe
 1 5

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 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 137
 His Phe Ser Ser Leu Pro Pro Ser Ile Leu Ser Gln Ala Phe Ser His
 1 5 10 15

Ala Arg Arg Leu Phe Ala His Thr Ala Ala Gly Cys Leu Arg Leu Leu
 20 25 30

Pro Trp Val Cys Leu Ser Arg Leu Pro Pro His Phe Pro Val Ser Ala
 35 40 45

Tyr Thr Leu Ile Leu Glu Phe Pro Ser Pro Leu Gly Ser Cys Ser Phe
 50 55 60

Ser Asp Tyr Pro Gly
 65

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<400> 138
 Cys His Val Trp Pro Leu Pro Val Asn Thr Val Gln
 1 5 10

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 Phe Tyr Val Asn Asn Trp Ser Leu Pro Thr Glu Gln Ala Ser Leu Leu
 1 5 10 15

Gly

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<400> 140
 Gln Ile Lys Asp Gln Val Cys Ser Leu Thr Phe Leu Phe Asn Ser Arg
 1 5 10 15

Trp Arg Gly Val Gly Trp Gly Gly Gly Leu Pro Val Phe Thr Val Val
 20 25 30

Pro Arg Gln Gly
 35

<210> 141
 <211> 14
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<400> 141
 Ser Ser Glu Leu Pro Cys Phe Arg Leu Leu Ser Ser Leu Gln
 1 5 10

<210> 142
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 <213> Homo sapiens

<400> 142

Val Leu Leu Cys Pro Ala Ala Arg
1 5

<210> 143

<211> 23

<212> PRT

<213> Homo sapiens

<400> 143

His Leu Val Ser His Gly Leu Val Ile Val Ser Leu Ser Ser Leu Thr
1 5 10 15Val Asp Gly Phe Pro Trp Arg
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<211> 58

<212> PRT

<213> Homo sapiens

<400> 144

Gln Leu Thr Trp Leu Gln Asp Phe Thr Glu Asn Leu Asn Val Gly Gly
1 5 10 15Lys Val Arg Thr His His Asn Gly Pro Asn Ser Lys Gln Ser Val Lys
20 25 30Gln Pro Gln Val Arg Gly Glu Met Phe Ser Thr Lys Val Ile Ile Leu
35 40 45Thr Pro Gln Ser Thr Pro Val Tyr Arg Gln
50 55

<210> 145

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<212> PRT

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<400> 145

Leu Pro Lys Ser Tyr
1 5

<210> 146

<211> 23

<212> PRT

<213> Homo sapiens

<400> 146

Thr His Asn Lys His Asp His Asn Ser Val Asp Trp Gln Gly His Thr
 1 5 10 15

Val Gly Leu Pro Phe Thr Gln
 20

<210> 147

<211> 40

<212> PRT

<213> Homo sapiens

<400> 147

Val Gly Lys Cys Cys Cys His Cys Cys Gln Leu Leu Phe Cys Ile Ser
 1 5 10 15

His Val Lys Ile Asn Lys Ala Lys Asn Ile Val Ser Lys Ser Tyr Phe
 20 25 30

Leu Phe Gln Thr Gly Gly Asn Tyr
 35 40

<210> 148

<211> 21

<212> PRT

<213> Homo sapiens

<400> 148

Ile Asn Lys Pro Cys Ile Lys Val Ala Ser Glu Arg Val Lys Ile Cys
 1 5 10 15

Val Phe Phe Glu Tyr
 20

<210> 149

<211> 40

<212> PRT

<213> Homo sapiens

<400> 149

Leu Arg Pro Pro Gly Gly Ser Thr Lys Val Glu Ser Trp Thr Lys Ala
 1 5 10 15

Ala Leu Cys Ser Cys Pro Gly Leu Pro Thr Ala Pro Phe His His His
 20 25 30

Ser His Ser Ile Gln Leu Tyr Phe
 35 40

<210> 150
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Lys Glu Arg Asp Arg Ala Thr Gln Ser Leu Ser Asp Trp Thr Gly Gln
 20 25 30

Ala Pro Met Glu Ser Leu Ser Ile Pro His Leu Leu Leu Pro Leu Ala
 35 40 45

Xaa Leu Thr Gly Glu Gly Ser Lys Leu Gly Phe Cys Trp Glu Trp Lys
 50 55 60

Leu Cys Gly Leu Phe Ile Ile Gly Thr Ile Met Ala Lys Ile Xaa Arg
 65 70 75 80

Ala Leu Arg Ser Glu Val Asn Thr Asp Ala Ile Phe Pro Val Cys Thr
 85 90 95

His Val Leu Arg His Pro Asn Gly Ser Gly Gln Asn Phe Leu Trp Leu
 100 105 110

Val Pro His Tyr Leu Asn Leu Cys Thr
 115 120

<210> 151
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 151

Leu Ser Lys Thr Leu Val Leu Asn Ser Thr Asp Met Arg Ala Gln Lys
 1 5 10 15

Arg Asp Val Ser Leu Ile Phe His Ser Val Thr Leu Ile Pro Thr Phe
 20 25 30

Pro Ala Ser Pro Cys His Trp Cys Ser Leu Val Pro Glu Ala
 35 40 45

<210> 152

<211> 46

<212> PRT

<213> Homo sapiens

<400> 152

Leu Pro Tyr Tyr Val Val Arg Thr Leu Gly Ser Pro Asn Asp Arg Ala
 1 5 10 15

Thr Val Ser Gly Leu Ile Ala Leu Pro Ile Ser Trp Ile Lys Lys Lys
 20 25 30

Arg Leu Thr Tyr Lys Ile Pro Phe Leu Lys Met Ser Thr Val
 35 40 45

<210> 153

<211> 44

<212> PRT

<213> Homo sapiens

<400> 153

Val Glu Val Arg Phe Trp Gly Met Glu Gly Cys Leu Asp Ala Lys Ser
 1 5 10 15

Lys Thr Val Glu Lys Arg Ile Met Gly Gly Ile Arg Gly Trp Asn Phe
 20 25 30

Ser Leu Leu Val Pro Tyr Asn Leu Cys Phe Leu Lys
 35 40

<210> 154

<211> 35

<212> PRT

<213> Homo sapiens

<400> 154

Phe Tyr Gly Asn Trp Gly Gln Glu Lys Gly Ile Ser Arg His Arg Trp
 1 5 10 15

Asp Pro Lys Arg Gly Leu Lys Phe Glu Glu Thr Met Gly Val Gly Lys
 20 25 30

Gly Cys Leu
 35

<210> 155
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 155
 Asp Glu Glu Ile Val Val Gly Gly Ser Leu Gly Gly Asp Arg Thr Leu
 1 5 10 15

Asn Arg Asp Arg Trp Gln Thr Val Cys Gly Gln Ala Gly Gly Ser Thr
 20 25 30

His Leu Ile Ser Val Glu Val Gly Arg Ala Gly Arg Ser Gln His Ser
 35 40 45

Gln Pro Trp Arg Lys Cys Lys Cys Asp Lys Lys Lys Gln Lys Glu Glu
 50 55 60

Thr Pro Gly Gln Gly Ala Pro Cys His Arg Phe Phe Pro Trp Pro Trp
 65 70 75 80

Leu Trp Glu Glu Leu Gly Lys Gly Gly Asp Ser Ala Ser Ser Glu Lys
 85 90 95

Pro Ser Leu Pro Leu Trp Thr Leu Glu Ala
 100 105

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<400> 156
 Arg Gly Glu Cys Val Gly Gly Met Met Trp Lys Glu
 1 5 10

<210> 157
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<400> 157

Leu Asp Leu Ser Arg Cys Val Cys Glu
1 5

<210> 158

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<212> PRT

<213> Homo sapiens

<400> 158

Asp Phe Arg Asn Glu Asn Gly Asn Thr Ala Val Leu Gln His Gly Arg
1 5 10 15

Gly Pro

<210> 159

<211> 19

<212> PRT

<213> Homo sapiens

<400> 159

Asp Pro Ser Pro Pro Pro His Arg Lys Arg Ile Ile Gln Ser Ser His
1 5 10 15

Leu Gly Phe

<210> 160

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<213> Homo sapiens

<400> 160

Gly His Asp Ile Asp Thr Glu Gln Glu Ser
1 5 10

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<213> Homo sapiens

<400> 161

Asp Arg Asn Thr Pro Ser Cys Leu Val Ser His
1 5 10

<210> 162

<211> 6

<212> PRT

<213> Homo sapiens

<400> 162
 Ala Ser Pro Val Leu His
 1 5

<210> 163
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<400> 163
 Leu Ile Gly Gly Cys
 1 5

<210> 164
 <211> 10
 <212> PRT
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<400> 164
 Ser Ser Pro Leu Arg Ser Leu Leu Pro Leu
 1 5 10

<210> 165
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 <212> PRT
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<400> 165
 Thr Pro Pro Thr Thr Leu His Arg Ala Thr Arg Gly Arg Ile Trp Ile
 1 5 10 15

Gln Cys Leu Thr Ala Cys Trp Gly Trp Thr Ala Met Val Arg Gly Lys
 20 25 30

Thr Glu Asp Arg Gly Ile Gly Thr Met His Ser Leu Ile Lys Gly Arg
 35 40 45

Thr Gly Pro Ser Trp Pro Leu Lys Val Pro Gly Ala Pro
 50 55 60

<210> 166
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 166
 Arg Leu Met His Ser Pro Ser His Tyr Thr Lys Asp His Ala His Arg
 1 5 10 15

Ile Phe Ile Ser Ile Phe Ser Phe Gln Asp Ala Gly Gly Cys Pro Leu
 20 25 30

Gly Trp Ala Ile Arg
 35

<210> 167
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 167
 Pro Glu Arg Gly Cys Leu Ser Leu Leu Tyr Arg Gly Ile Pro Gln Cys
 1 5 10 15

Ser Met Tyr Gln Arg Pro Pro Gly
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<210> 168
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 <213> Homo sapiens

<400> 168
 Pro Phe Pro Cys
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<210> 169
 <211> 40
 <212> PRT
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<400> 169
 Phe Leu Met Leu Thr Ser Ser Asn Ser Asp Pro Leu Asp Leu Val Phe
 1 5 10 15

Asn Asp Pro Glu Leu Lys Lys Pro Asn Tyr Asp Pro Met Thr Ser Phe
 20 25 30

Ser Ser Thr Leu Pro Pro Thr Arg
 35 40

<210> 170
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<400> 170
 Leu Ser Thr Trp Lys Phe Leu Ser Ala Cys Cys Glu Tyr Ala Pro Arg
 1 5 10 15

Asp Val Ser Thr Arg Asp Arg Cys
20

<210> 171
<211> 42
<212> PRT
<213> Homo sapiens

<400> 171
Trp Gly Ile His Gly Glu Leu Lys Glu Gly Pro Gln Lys Val His Ser
1 5 10 15

Arg Glu Glu Ser Ile Met Val Ser Gly Gln Trp Trp Leu Gly Pro Phe
20 25 30

Ile Pro Val Phe Trp Arg Gln Ser Gln Ala
35 40

<210> 172
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<213> Homo sapiens

<400> 172
Ala Pro Gly Gln Pro Arg Leu Cys Arg Glu Thr Leu Phe
1 5 10

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<400> 173
Lys Thr Gln Asn Gln Asn
1 5

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<211> 41
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<213> Homo sapiens

<400> 174
Pro Asn Asn Asn Asn Arg Lys Ser Thr Val Val Arg Glu Ile Ser Leu
1 5 10 15

Tyr Arg Arg Asp Lys Glu Phe Lys Thr Leu Glu Ser Lys Ala Gly Phe
20 25 30

Pro Met Glu Trp Ser Pro Ser Leu Phe
 35 40

<210> 175
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 <212> PRT
 <213> Homo sapiens

<400> 175
 Leu Gly Val Cys Ser Glu Arg Pro Ser Gln Ala Trp Gly
 1 5 10

<210> 176
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 176
 Leu Phe Leu Leu Ser Thr Gln Ala Cys Ala Pro Leu Trp Ser Arg Ala
 1 5 10 15

Cys Gly Ser Ser Val Phe Ser Ser Gly Ile Cys Ala Arg Val Asp Ala
 20 25 30

Ser Phe Arg Pro Gln Gly Ser Leu Ala Pro Thr Ala Gln Arg Glu Pro
 35 40 45

Val Glu Gly Pro Trp Lys Leu Ser Ser Gln Ile Gly Met Leu Gly Gly
 50 55 60

Lys Asn
 65

<210> 177
 <211> 27
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 <213> Homo sapiens

<400> 177
 Asp Lys Asp Leu Val Glu Gly Leu His Gly Tyr Pro His His Ser Gln
 1 5 10 15

Val Cys Leu Gln Lys Arg Leu Leu Phe Ala Asn
 20 25

<210> 178
 <211> 19
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<400> 178
 Leu Glu Phe Arg Leu Leu Arg Arg Ala Ser Arg His Gln Asp Leu Val
 1 5 10 15

Leu Pro Thr

<210> 179
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 179
 Lys Gln Asn Lys Thr Ala Tyr Pro Val His Ser Leu Ser Leu Ile His
 1 5 10 15

His Val Ser Ser Ile Ser Tyr Phe Cys Gly Ser Tyr Arg Cys Gln Val
 20 25 30

Ser Thr Gln Leu Leu Gly Ser Pro Leu Met Pro Phe Ile Tyr Phe Leu
 35 40 45

Ile Tyr Cys Leu Leu Gly Asp Ser Leu Met
 50 55

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 <211> 31
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<400> 180
 Pro Arg Leu Ser Leu Ile Leu Glu Phe Ala Cys Leu Ser Phe Ser Val
 1 5 10 15

Ser Ser Thr Gly Ile Ile Gly Met His Cys Leu Pro Gly Leu Cys
 20 25 30

<210> 181
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<400> 181
 Thr Cys Pro Leu Trp Pro Leu Val Gly His Glu Ser Asn Thr Ala Leu
 1 5 10 15

Pro His Asn Thr His Thr Asn Glu Ser Glu Ala Leu
 20 25

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<400> 182
 Val Phe His Ser Thr Gly
 1 5

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 <211> 22
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<400> 183
 Cys Ile Phe His Ser Phe Thr Leu Pro Ile Ser Ser Phe Phe Asp Phe
 1 5 10 15

His Thr Gly Asp Leu Ala
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<400> 184
 Tyr Phe Pro Gly Asn
 1 5

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<400> 185
 Glu Arg Ile Pro Phe
 1 5

<210> 186
 <211> 132
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<400> 186

Val Pro Ala Leu Gln Arg Pro Pro Gly Thr Phe Ser Leu Ala Asp Tyr
 1 5 10 15

Thr Pro His Pro Ser Met Phe Phe Val Ser His His Tyr Ala Pro Leu
 20 25 30

Leu Gly Cys Pro Thr Tyr Met Asp Val Val Ile Val Leu Asp Gly Ser
 35 40 45

Asn Ser Ile Tyr Pro Trp Ser Glu Val Gln Thr Phe Leu Arg Arg Leu
 50 55 60

Val Gly Arg Leu Phe Ile Asp Pro Glu Gln Ile Gln Val Arg Glu Arg
 65 70 75 80

Tyr Val Asp Arg Ile Gly Gly Lys Glu Val Asn Thr Pro Gly Pro Leu
 85 90 95

Asp Val Ser Ser His Val Gln Pro Leu Asp Asp Thr Leu Gly His Cys
 100 105 110

Leu Leu Gln Asn Ser Cys Ser Arg Thr Val Gln Leu Thr Tyr Lys Val
 115 120 125

Thr Lys Ile Ser
 130

<210> 187

<211> 46

<212> PRT

<213> Homo sapiens

<400> 187

Val Tyr Asp Cys Val Gly Gly His Thr Gln Ser Phe Pro Leu Leu Leu
 1 5 10 15

Val Val Ala Trp Ala Met His Ala Met Ser Cys Lys Leu Asp Thr Pro
 20 25 30

Val His Phe Pro Phe Ile Val Leu Gln Val Gly His Thr Cys
 35 40 45

<210> 188
 <211> 29
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 <213> Homo sapiens

<400> 188
 Gly Phe Thr Ser Pro Ser Ser Phe Val Leu His Leu Leu Tyr Ala Leu
 1 5 10 15

His Thr Ser His Val Gly Thr Trp Ser Ile Val Leu Arg
 20 25

<210> 189
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 189
 Asp Trp Tyr Ser Thr Gly Arg Thr Leu Cys Met Ser Gly Pro Trp Glu
 1 5 10 15

Thr Ser Glu Gln Arg Lys Lys Leu
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<210> 190
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 <212> PRT
 <213> Homo sapiens

<400> 190
 Glu Gln Gln Gly Thr
 1 5

<210> 191
 <211> 21
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 <213> Homo sapiens

<400> 191
 Val Gly Gly Lys Gly Glu Lys Arg Glu Pro Pro Lys Arg Ser Trp Trp
 1 5 10 15

His Gly Glu Thr Leu
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<210> 192
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 192

Arg Gly Arg Val Arg Glu Glu Glu Gly Ser Ala Gly Arg Gly Arg Gly
 1 5 10 15

Ser Gly Val

<210> 193

<211> 92

<212> PRT

<213> Homo sapiens

<400> 193

Cys Ile His His Lys Met Leu Trp Ala Leu Ile Phe Ile Cys Met Pro
 1 5 10 15

Glu Val Arg Gly Gly Arg Leu Gly Cys Cys His His Thr Leu Ser Tyr
 20 25 30

Cys Ile Cys Ile Leu Trp Cys Leu Trp Val Tyr Leu Ser Leu Ser Val
 35 40 45

Leu Phe Leu His Thr Glu Leu His Leu Ser Ser Ser Thr Pro Ala Ser
 50 55 60

Ile Leu Ile Pro Ser Phe Ser Thr Thr His Ala Leu Val Phe Phe Ser
 65 70 75 80

Asn Met Thr Leu Asn Leu Trp Gly Gly Tyr Met Thr
 85 90

<210> 194

<211> 17

<212> PRT

<213> Homo sapiens

<400> 194

Leu Ser Leu Phe Ser Ser Ser Leu Ile Leu Ser Thr Gln Val Phe Ala
 1 5 10 15

Glu

<210> 195

<211> 19

<212> PRT

<213> Homo sapiens

<400> 195

Ile	Met	Leu	Val	His	Ile	Tyr	Thr	Asp	Asp	Arg	Leu	Phe	Tyr	Met	Phe
1				5					10					15	

Arg Ala Ile

<210> 196

<211> 4

<212> PRT

<213> Homo sapiens

<400> 196

Thr	Val	Lys	Leu
1			

<210> 197

<211> 14

<212> PRT

<213> Homo sapiens

<400> 197

Leu	Cys	Ala	Ser	Leu	His	Ala	Arg	Tyr	Cys	Trp	Gly	Met	Val
1				5					10				

<210> 198

<211> 45

<212> PRT

<213> Homo sapiens

<400> 198

Lys	Thr	Ser	Asp	Leu	Ser	Glu	Leu	Leu	Thr	Val	Leu	Ile	His	Tyr	Thr
1				5					10					15	

Gly	Met	Pro	Ala	Cys	Lys	Pro	Val	Cys	Met	Cys	Met	His	Met	His	Thr
			20					25					30		

His	Thr	Tyr	Asp	His	Ile	Ala	Phe	Phe	Tyr	Leu	Ser	Ser
		35					40					45

<210> 199

<211> 15

<212> PRT

<213> Homo sapiens

<400> 199

His	Arg	Arg	Val	Gln	Ser	Val	Pro	Gly	Gly	Thr	Thr	Arg	Gly	Arg
1				5					10				15	

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 <213> Homo sapiens

<400> 200
 Ala Ala Gly Ser Cys His
 1 5

<210> 201
 <211> 4
 <212> PRT
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<400> 201
 Trp Arg Val Pro
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<210> 202
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 202
 Trp Arg Gly Thr Ser Ser Ser Ala Lys Gly Leu
 1 5 10

<210> 203
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 203
 Gly Trp Gln Ser Asp Thr Leu Trp Asp Cys Gly Glu Thr
 1 5 10

<210> 204
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 204
 Ser Ser Pro Val Val Leu Phe Cys Val Val Ser Cys Val Cys Val Cys
 1 5 10 15

Val Cys Val Cys Val Cys Val Cys Val Cys Met Cys Asp Met Cys Ala
 20 25 30

Cys Ile Ser Ala His Thr Ile Val Cys Ile Cys Gly Ser Glu Asn Asn
 35 40 45

Leu Arg Cys Trp Ser Ser Pro Ser Ile Leu Phe Gln Thr Gly Tyr Leu
 50 55 60

Val His Phe Gly Ile Gln
 65 70

<210> 205
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 205
 Ala Arg Leu Ala Asp Pro Gln Val Leu Gly Arg Ser Ser Val Ser Ala
 1 5 10 15

Ser Cys Leu Leu Val
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<210> 206
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 206
 Gly Ile Leu Glu Phe Thr Asp Lys Leu Asp Ile Glu Phe Leu Gln Pro
 1 5 10 15

Gly Gly Ser Thr Ser Ser Arg Ala Ala Ala Thr Lys Gly
 20 25

<210> 207
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<400> 207
 Gln Ser Xaa Xaa Lys Xaa Glu Val
 1 5

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<400> 208
 Pro Val Gly Xaa Asp Xaa Xaa Xaa Ala Xaa Xaa
 1 5 10

<210> 209
 <211> 110
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<400> 209
 Arg Thr Met Xaa Xaa Pro Xaa Xaa Xaa Xaa Xaa Arg Xaa Xaa Xaa Ser
 1 5 10 15

Lys Xaa Xaa Ser Gln Glu Pro Thr Xaa Trp Leu Ala Xaa Xaa Arg Asp
 20 25 30

Gln Xaa Arg Xaa Leu Xaa Xaa Xaa Leu Xaa Xaa Ile Asn Arg Xaa Xaa
 35 40 45

Xaa Gly Gly Gly Ile Xaa Lys Xaa Trp Xaa Xaa Xaa Xaa Xaa Met
 50 55 60

Xaa Xaa Arg Leu Xaa Arg Xaa Xaa Xaa Val Gln Ala Xaa Thr Xaa Xaa
 65 70 75 80

Cys Leu Arg Xaa Ser Xaa Gly Gln Xaa Cys Arg Ser Xaa Asp Leu Xaa
 85 90 95

Xaa Ile Arg Xaa Xaa Asp Leu Xaa Xaa Gly Xaa Ala Ser Ala
 100 105 110

<210> 210

<211> 15

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<222> (11)..(12)

<223> Variable amino acid

<400> 210

Thr Xaa Xaa Gly Xaa Ser Thr Xaa Thr Pro Xaa Xaa Asp Ile Tyr
 1 5 10 15

<210> 211
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 <223> Variable amino acid

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 <222> (8)..(8)
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<400> 211
 Xaa Arg Arg Val Ala Arg Ser Xaa Glu Met Ile
 1 5 10

<210> 212
 <211> 20
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
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<400> 212
 Xaa Gly Val Pro Leu Pro Val Tyr Glu Arg Thr Gly Ser Ala Asp Ile
 1 5 10 15

Asp Ala Leu Cys
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<210> 213
 <211> 22
 <212> PRT
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<220>
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 <223> Variable amino acid

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<400> 213
 Leu Thr Tyr Cys Cys Xaa Glu Xaa Asp Gln Ile Arg Ser Xaa Val Pro
 1 5 10 15

His His Glu Xaa Xaa Pro
 20

<210> 214
 <211> 15
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 <223> Variable amino acid

<400> 214
 Asp Ser Pro Met Met Glu Gln Glu Thr Xaa Ala Thr Ala Gly Glu
 1 5 10 15

<210> 215
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 <212> PRT
 <213> Homo sapiens

<400> 215
 Arg Phe Leu Glu
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 <211> 59
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 <223> Variable amino acid

<400> 216
 Glu Ser Gln Glu Glu Arg Asn Cys Gly Pro Gly Gly Pro Gly Thr Pro
 1 5 10 15

Gly Gly Ser Xaa His Asn Trp Leu Xaa Val Ser Ala Pro Ile Leu Ile
 20 25 30

Xaa Ala Arg Pro Xaa Ser Tyr Pro Pro Leu Leu Leu Asp Gly Ser Glu
 35 40 45

Met Pro Gly Pro Phe His Pro His Trp Thr Asn
 50 55

<210> 217
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 217
 Ala Ser Gly Val Val Ala Leu Gly Leu Trp Gly Cys Val Ala Ser Tyr
 1 5 10 15

Pro Pro Phe Cys Leu Phe Ser Pro
 20

<210> 218
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 <212> PRT
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<400> 218
 Ser Val Pro Gly Tyr Asp Ser Ser Pro Asp
 1 5 10

<210> 219
 <211> 5
 <212> PRT
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<220>
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<400> 219
 Xaa Cys Gly Thr Arg
 1 5

<210> 220
 <211> 6
 <212> PRT
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<400> 220
 Gly Gly Ser Pro Gly Gly
 1 5

<210> 221
 <211> 14
 <212> PRT
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 <222> (3)..(3)
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<220>
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<400> 221
 Asp Gly Xaa Leu Cys Ala Xaa Leu Ile Val Ile Gln Leu Pro
 1 5 10

<210> 222
 <211> 53
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 <213> Homo sapiens

<220>
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 <222> (49)..(49)
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<400> 222

Leu Lys Leu Lys Ser Arg Ser Leu Gly Met Arg Gly Arg Thr Cys Gln
1 5 10 15

Arg Arg Val Arg Lys Ala Val Leu Arg Glu Gly Ser Cys Arg Pro Leu
20 25 30

Gln Leu Asp Phe Ile Gln Ser His Cys Gln Asn Leu Ile Ala Leu Pro
35 40 45

Xaa Ile Ser Leu Ser
50

<210> 223

<211> 12

<212> PRT

<213> Homo sapiens

<400> 223

Leu Arg Ile Cys Tyr Arg Arg Gln Asn Ser Leu Ser
1 5 10

<210> 224

<211> 19

<212> PRT

<213> Homo sapiens

<400> 224

Pro Pro Gly Gln Ile Phe Lys Arg Arg Gly Val Gly Tyr Phe Leu Val
1 5 10 15

Gly Glu Ala

<210> 225

<211> 46

<212> PRT

<213> Homo sapiens

<400> 225

Val Met Asp Ser Lys Val Leu Ile Val Phe Phe Phe Ser Glu Thr Ser
1 5 10 15

Cys Ser Ile Phe Leu Pro Phe His Pro Pro Tyr Phe Pro Arg Leu His
20 25 30

Phe Met Pro Gly Val Ser Ser Leu Thr Pro Leu Gln Ala Val
35 40 45

<210> 226
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 226
 Gly Phe Ser Pro Gly Ser Ala Ser Ala Asp Cys Leu His Thr Phe Gln
 1 5 10 15

Phe Leu Arg Thr Arg
 20

<210> 227
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 227
 Ser Phe Leu Pro His Leu Ala Leu Ala Leu Ser Leu Thr Thr Gln Ala
 1 5 10 15

Asp Ala Met Ser Gly Leu Phe Leu
 20

<210> 228
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 228
 Ile Leu Tyr Asn Asp Ser Met
 1 5

<210> 229
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 229
 Ile Thr Gly Pro Cys Pro Gln Ser Lys Gln Ala Phe
 1 5 10

<210> 230
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 230
 Ala Asn Lys Leu Lys Ile Lys Phe Ala His
 1 5 10

<210> 231
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 231
 Leu Phe Tyr Ser Ile Gln Asp Gly Gly Gly Trp Gly Gly Gly Ala Asp
 1 5 10 15

Cys Leu Phe Ser Leu Trp Tyr Leu Gly Arg Ala Glu Ala Leu Ser Ser
 20 25 30

Pro Ala Leu Gly Phe
 35

<210> 232
 <211> 23
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 <213> Homo sapiens

<400> 232
 Val Ala Tyr Ser Glu Cys Tyr Cys Val Gln Leu Leu Val Asp Ile Trp
 1 5 10 15

Ser Leu Met Val Trp Ser Leu
 20

<210> 233
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 <213> Homo sapiens

<400> 233
 Ala Leu Ala Leu
 1

<210> 234
 <211> 10
 <212> PRT
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<400> 234
 Leu Trp Met Ala Phe Leu Gly Val Ser Ser
 1 5 10

<210> 235
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<400> 235

His Gly Tyr Arg Ile Ser Leu Lys Ile
 1 5

<210> 236

<211> 18

<212> PRT

<213> Homo sapiens

<400> 236

Met Leu Gly Glu Arg Cys Gly His Thr Ile Met Val Pro Ile Gln Asn
 1 5 10 15

Asn Pro

<210> 237

<211> 13

<212> PRT

<213> Homo sapiens

<400> 237

Asn Ser Leu Lys Leu Gly Val Arg Cys Phe Gln Pro Lys
 1 5 10

<210> 238

<211> 33

<212> PRT

<213> Homo sapiens

<400> 238

His His Lys Ala His Leu Ser Thr Gly Ser Asp Ser Pro Lys Ala Ile
 1 5 10 15

Arg His Thr Thr Ser Met Thr Ile Thr Gln Trp Ile Gly Lys Val Thr
 20 25 30

Gln

<210> 239

<211> 7

<212> PRT

<213> Homo sapiens

<400> 239

Asp Cys Pro Ser His Ser Arg
 1 5

<210> 240
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 240
 Glu Asn Ala Ala Val Thr Ala Val Ser Cys Tyr Phe Ala Tyr Pro Met
 1 5 10 15

Leu Arg Leu Ile Arg Gln Lys Ile Leu Ser Leu Ser Pro Thr Phe Cys
 20 25 30

Ser Lys Leu Glu Glu Ile Ile Glu
 35 40

<210> 241
 <211> 4
 <212> PRT
 <213> Homo sapiens

<400> 241
 Ile Asn Arg Ala
 1

<210> 242
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 <212> PRT
 <213> Homo sapiens

<400> 242
 Pro Gln Lys Gly Ser Lys Phe Val Phe Ser Leu Asn Ile Ser
 1 5 10

<210> 243
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 243
 Gly Leu Gln Gly Ala Ala Pro Arg
 1 5

<210> 244
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 244
 Arg Ala Gly Leu Arg Leu Leu Cys Val Pro Val Leu Gly Ser Pro Gln
 1 5 10 15

105

Leu Pro Ser Thr Thr Thr Pro Ile Pro Ser Asn Phe Ile Phe Ser Cys
20 25 30

Gln Trp Glu Gly Ala Gly
35

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<211> 37

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<213> Homo sapiens

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Arg Lys Gln Pro Arg Arg Gly Thr Glu Gln Leu Arg Ala Ser Arg Thr
1 5 10 15

Gly Pro Asp Lys Arg Pro Trp Ser Leu Ser Pro Ser Leu Thr Cys Ser
20 25 30

Cys Pro Trp Arg Xaa
35

<210> 246

<211> 19

<212> PRT

<213> Homo sapiens

<400> 246

Gln Val Arg Glu Ala Asn Leu Val Ser Ala Gly Asn Gly Ser Tyr Val
1 5 10 15

Asp Cys Leu

<210> 247

<211> 46

<212> PRT

<213> Homo sapiens

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<222> (9)..(9)

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<400> 247

Leu Gly Pro Leu Trp Leu Lys Ser Xaa Gly Arg Ser Gly Arg Arg Leu
 1 5 10 15

Ile Pro Met Leu Tyr Phe Leu Cys Ala Leu Met Phe Leu Asp Thr Gln
 20 25 30

Met Ala Val Ala Lys Thr Ser Ser Gly Leu Tyr Leu Ile Ile
 35 40 45

<210> 248

<211> 11

<212> PRT

<213> Homo sapiens

<400> 248

Thr Phe Val Pro Asn Tyr Leu Lys Pro Trp Ser
 1 5 10

<210> 249

<211> 4

<212> PRT

<213> Homo sapiens

<400> 249

Thr Pro Gln Thr
 1

<210> 250

<211> 15

<212> PRT

<213> Homo sapiens

<400> 250

Gly His Arg Lys Glu Thr Cys Leu Ser Ser Ser Ile Arg Leu His
 1 5 10 15

<210> 251

<211> 40

<212> PRT

<213> Homo sapiens

<400> 251

Phe Leu Pro Ser Leu Leu Leu Pro Ala Ile Gly Ala Pro Trp Cys Leu
 1 5 10 15

Arg His Asn Cys Leu Thr Met Trp Ser Glu Leu Trp Val Arg Leu Thr
 20 25 30

Thr Glu Leu Gln Phe Leu Val Ser
 35 40

<210> 252
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 252
 Pro Cys Gln Phe Pro Gly Leu Lys Lys Lys Gly Ser His Ile Lys Tyr
 1 5 10 15

Leu Phe

<210> 253
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 253
 Ala Gln Cys Glu Leu Lys Leu Asp Phe Gly Gly Trp Arg Val Ala Trp
 1 5 10 15

Met Gln Arg Ala Arg Gln
 20

<210> 254
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 254
 Arg Arg Glu Ser Trp Glu Gly
 1 5

<210> 255
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 255
 Glu Ala Gly Ile Phe Pro Cys
 1 5

<210> 256
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 256

Cys Pro Ile Ile Phe Val Ser
 1 5

<210> 257

<211> 26

<212> PRT

<213> Homo sapiens

<400> 257

Asn Asn Ser Ser Asp Phe Met Gly Ile Gly Val Arg Arg Lys Glu Ser
 1 5 10 15

Val Gly Thr Asp Gly Thr Pro Ser Val Asp
 20 25

<210> 258

<211> 7

<212> PRT

<213> Homo sapiens

<400> 258

Ser Leu Arg Lys Leu Trp Glu
 1 5

<210> 259

<211> 42

<212> PRT

<213> Homo sapiens

<400> 259

Ala Arg Gly Val Cys Lys Val Asp Glu Met Arg Arg Leu Trp Trp Gly
 1 5 10 15

Gly Val Leu Gly Val Ile Gly Pro Leu Thr Gly Ile Asp Gly Lys Leu
 20 25 30

Cys Val Gly Arg Pro Val Val Pro Pro Thr
 35 40

<210> 260

<211> 50

<212> PRT

<213> Homo sapiens

<400> 260

Leu Ala Leu Arg Leu Ala Gly Leu Glu Gly Ala Ser Thr Leu Asn Leu
 1 5 10 15

Gly Glu Ser Ala Ser Val Thr Arg Arg Asn Arg Lys Arg Arg His Pro
 20 25 30

Gly Arg Glu Leu Leu Ala Ile Val Ser Ser His Gly Pro Gly Phe Gly
 35 40 45

Lys Asn
 50

<210> 261
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 261
 Glu Arg Val Val Thr Leu His Pro Gln Lys Ser Pro Leu Ser Leu Phe
 1 5 10 15

Gly Leu Ser Arg Leu Arg Glu Glu Asn Val
 20 25

<210> 262
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 262
 Cys Gly Lys Ser Asn Leu Thr Tyr Pro Asp Val Ser Val Asn Glu Ile
 1 5 10 15

Ser Gly Met Arg Met Glu Ile Gln Leu Cys Phe Ser Met Ala Glu Gly
 20 25 30

Leu Arg Ile Pro His Pro His Pro Thr Gly Arg Glu Ser Ser Asn His
 35 40 45

Pro Thr Trp Gly Ser Glu Asp Met Thr Leu Thr Gln Ser Arg Arg Ala
 50 55 60

Glu Ile Glu Thr Leu Pro Pro Val Leu Ser Pro Thr Lys Pro His Gln
 65 70 75 80

Ser Phe Ile Asn

110

<210> 263
<211> 49
<212> PRT
<213> Homo sapiens

<400> 263
Leu Val Asp Ala Asn Tyr Asp Pro His Pro Ser Gly Leu Cys Ser Pro
1 5 10 15

Phe Asn Leu Asp Glu His His Pro Arg Leu Phe Thr Gly Pro Pro Glu
20 25 30

Ala Glu Phe Gly Tyr Ser Val Leu Gln His Val Gly Gly Gly Gln Arg
35 40 45

Trp

<210> 264
<211> 14
<212> PRT
<213> Homo sapiens

<400> 264
Glu Gly Lys Gln Arg Thr Val Gly Ser Gly Leu Cys Thr His
1 5 10

<210> 265
<211> 9
<212> PRT
<213> Homo sapiens

<400> 265
Arg Gly Gly Pro Val Gln Ala Gly Leu
1 5

<210> 266
<211> 80
<212> PRT
<213> Homo sapiens

<400> 266
Lys Cys Leu Gly Leu His Asp Val Ser Cys Thr Leu Pro Leu Thr Ile
1 5 10 15

Leu Arg Thr Met Leu Thr Gly Ser Leu Tyr Pro Tyr Ser Pro Ser Arg
20 25 30

Met Leu Val Gly Ala Pro Trp Asp Gly Pro Ser Gly Asp Arg Arg Gly
35 40 45

Asp Val Tyr Arg Cys Ser Ile Gly Gly Phe His Ser Ala Pro Cys Thr
 50 55 60

Lys Gly His Leu Gly Lys Lys Lys Pro Asp Leu Ser Pro Ala Asn Ser
 65 70 75 80

<210> 267
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 267
 His Leu Val Thr Leu Thr Pro Trp Thr Leu Ser Ser Met Thr Leu Asn
 1 5 10 15

<210> 268
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 268
 Arg Ser Arg Thr Met Thr Pro
 1 5

<210> 269
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 269
 Leu His Ser Leu Leu Pro Phe Leu Gln Pro Gly Asp Tyr Gln Leu Gly
 1 5 10 15

Asn Ser Ser Gln Pro Ala Val Asn Met His Leu Gly Met Ser Leu Leu
 20 25 30

Glu Thr Asp Ala Asp Gly Gly Phe Met Val Ser
 35 40

<210> 270
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 270
 Lys Lys Gly Leu Arg Arg Phe Thr Ala Gly Lys Arg Ala Leu Trp Tyr
 1 5 10 15

112

Leu Gly Ser Gly Gly Leu Gly Leu Ser Ser Gln Cys Ser Gly Gly Arg
20 25 30

Val Arg Pro Asp Leu Gln Ser Glu Leu Gln Asp Ser Gln Gly Tyr Ala
35 40 45

Glu Lys Pro Cys Phe Glu Lys Pro Lys Thr Lys Thr Asn Gln Thr Thr
50 55 60

Thr Thr Glu Lys Ala Pro Trp
65 70

<210> 271
<211> 14
<212> PRT
<213> Homo sapiens

<400> 271
Gly Lys Leu Val Cys Ile Glu Glu Thr Arg Asn Ser Lys Pro
1 5 10

<210> 272
<211> 16
<212> PRT
<213> Homo sapiens

<400> 272
Arg Ala Arg Gln Gly Ser Pro Trp Ser Gly Leu His Leu Ser Phe Asn
1 5 10 15

<210> 273
<211> 71
<212> PRT
<213> Homo sapiens

<400> 273
Val Cys Val Pro Arg Gly Pro Leu Lys Pro Gly Asp Asn Tyr Phe Ser
1 5 10 15

Tyr Pro Pro Arg Pro Val Pro Leu Phe Gly Leu Val Pro Ala Ala Ala
20 25 30

Leu Ser Ser Val Leu Glu Tyr Val Pro Val Trp Met Leu His Ser Gly
35 40 45

Pro Arg Glu Ala Trp His Pro Pro Pro Asn Val Ser Gln Trp Lys Gly
50 55 60

Pro Gly Ser Ser Val Pro Arg
65 70

<210> 274
<211> 118
<212> PRT
<213> Homo sapiens

<400> 274
Gly Cys Trp Val Gly Lys Thr Arg Thr Lys Thr Trp Trp Arg Val Cys
1 5 10 15

Met Ala Ile Leu Ile Ile Pro Lys Cys Ala Cys Arg Arg Gly Ser Cys
20 25 30

Leu Leu Thr Asp Asn Ser Asp Ser Leu Gly Glu Pro Gln Asp Thr Arg
35 40 45

Ile Trp Phe Tyr Gln Leu Lys Asn Lys Thr Lys Gln His Ile Leu Cys
50 55 60

Thr Ala Tyr Pro Ser Ser Ile Thr Cys Pro Pro Tyr Leu Ile Phe Val
65 70 75 80

Gly Leu Ile Asp Ala Lys Ser Ala Leu Ser Tyr Trp Val Leu Pro Ser
85 90 95

Cys Leu Ser Tyr Thr Phe Leu Ser Thr Ala Phe Trp Glu Ile Val Leu
100 105 110

Cys Ser Pro Gly Cys Pro
115

<210> 275
<211> 15
<212> PRT
<213> Homo sapiens

<400> 275
Ser Trp Asn Leu Leu Ala Ser Ala Ser Gln Ser Gln Val Leu Gly
1 5 10 15

<210> 276
<211> 17
<212> PRT
<213> Homo sapiens

<400> 276

Ala Cys Ile Val Cys Leu Ala Phe Ala Glu His Ala Leu Cys Gly His
 1 5 10 15

Trp

<210> 277

<211> 101

<212> PRT

<213> Homo sapiens

<400> 277

Gly Met Ser Gln Ile Leu Pro Ser Pro Thr Thr His Thr Gln Thr Lys
 1 5 10 15

Val Arg Leu Ser Lys Cys Ser Ile Ala Gln Gly Ser Gly Arg Pro Leu
 20 25 30

Ala Ser Ala Tyr Phe Ile Leu Leu Leu Cys Pro Ser Leu Leu Ser Leu
 35 40 45

Ile Ser Thr Leu Gly Thr Trp His Ser Thr Phe Leu Val Ile Lys Arg
 50 55 60

Glu Phe Pro Phe Lys Cys Leu His Cys Ser Val Leu Leu Gly His Ser
 65 70 75 80

Pro Leu Leu Thr Thr Pro His Ile Leu Pro Cys Phe Leu Phe Pro Ile
 85 90 95

Thr Met Pro Pro Phe
 100

<210> 278

<211> 31

<212> PRT

<213> Homo sapiens

<400> 278

Ala Val Pro His Thr Trp Met Ser Ser Leu Phe Trp Met Ala Pro Thr
 1 5 10 15

Val Ser Ile Pro Gly Gln Lys Phe Arg Leu Ser Phe Gly Gly Trp
 20 25 30

<210> 279
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 279
 Glu Asp Cys Ser Ser Ile Arg Ser Arg Tyr Arg
 1 5 10

<210> 280
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 280
 Glu Lys Asp Met Trp Ile Gly Leu Glu Gly Lys Lys
 1 5 10

<210> 281
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 281
 Thr Leu Leu Asp Pro Trp Met
 1 5

<210> 282
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 282
 Ala Ala Met Ser Ser Leu Leu Met Thr Pro Trp Asp Ile Val Phe Tyr
 1 5 10 15

Arg Thr His Ala Gln Glu Leu Cys Asn
 20 25

<210> 283
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 283
 Leu Thr Lys Lys Ser Gln Lys Phe His Asn Val
 1 5 10

<210> 284
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 284

Ser Lys Phe Met Ile Val Trp Gly Ala Thr Leu Arg Ala Ser Leu Cys
 1 5 10 15

Cys Leu

<210> 285

<211> 7

<212> PRT

<213> Homo sapiens

<400> 285

Leu Leu Gly Gln Cys Met Pro
 1 5

<210> 286

<211> 58

<212> PRT

<213> Homo sapiens

<400> 286

Thr His Leu Phe Thr Ser Pro Ser Ser Cys Cys Arg Leu Asp Thr Pro
 1 5 10 15

Val Arg Gly Ser Leu Pro Leu His Pro Leu Cys Ser Ile Phe Ser Thr
 20 25 30

Leu Phe Ile His Pro Met Trp Ala His Gly Leu Leu Phe Ser Gly Arg
 35 40 45

Thr Gly Thr Val Arg Gly Glu Pro Cys Ala
 50 55

<210> 287

<211> 45

<212> PRT

<213> Homo sapiens

<400> 287

Val Val Pro Gly Arg Leu Pro Asn Lys Gly Arg Ser Cys Glu Ser Ser
 1 5 10 15

Lys Glu Pro Lys Ser Glu Gly Arg Ala Arg Asn Glu Asn Arg Pro Ser
 20 25 30

Asp His Gly Gly Met Val Arg His Cys Lys Gly Val Val
 35 40 45

<210> 288
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 288
 Gly Arg Arg Lys Asp Gln Gln Gly Glu Gly Glu Gly Leu Glu Cys Ser
 1 5 10 15

Val Tyr Ile Thr Arg Cys Ser Gly Arg Leu Ser Leu Ser Ala Cys Gln
 20 25 30

Lys Phe Val Glu Glu Gly
 35

<210> 289
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 289
 Val Ala Val Thr Ile Leu Ser Leu Thr Val Phe Ala Phe Tyr Gly Val
 1 5 10 15

Cys Gly Cys Ile Ser Pro Cys Leu Phe Cys Phe Cys Thr Gln Asn Ser
 20 25 30

Ile Phe Pro Leu Leu Leu Leu Arg Gln Phe
 35 40

<210> 290
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 290
 Tyr Leu Ala Ser Gln Pro Leu Thr Pro
 1 5

<210> 291
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 291
 Tyr Ser Phe Gln Thr
 1 5

<210> 292
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 292
 Thr Ser Gly Glu Ala Thr
 1 5

<210> 293
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 293
 Pro Asp Cys Leu Tyr Ser Pro Val Pro
 1 5

<210> 294
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 294
 Ser Cys Gln Pro Lys Cys Leu Leu Asn Glu Ser Ile Asn Lys
 1 5 10

<210> 295
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 295
 Cys Leu Tyr Ile Phe Thr Leu Met Thr Asp Tyr Phe Ile Cys Ser Val
 1 5 10 15

Pro Ser Lys Gln Ser Ser Cys Asp Ser Val Pro Val Cys Met Leu Asp
 20 25 30

Thr Val Gly Glu Trp Cys Arg Arg His Leu Thr Ser Val Asn Cys
 35 40 45

<210> 296
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 296
 Tyr Thr Ile Arg Ala Cys Leu His Ala Ser Leu Cys Val Cys Ala Cys
 1 5 10 15

Ile Cys Thr His Ile His Met Thr Ile
 20 25

<210> 297
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 297
 His Ser Phe Ile Ser Leu Leu Ser Thr Glu Gly Phe Ser Gln Ser Arg
 1 5 10 15

Gly Gly Arg Pro Glu Ala Ala Arg Leu Leu Val Val Val Thr Asp Gly
 20 25 30

Glu Ser His Asp Gly Glu Glu Leu Pro Ala Ala Leu Lys Ala Cys Glu
 35 40 45

Ala Gly Arg Val Thr Arg Tyr Gly Ile Ala Val Arg Leu Asp Gln Val
 50 55 60

Gln Leu Phe Cys Phe Val Leu Tyr Arg Val Cys Val Cys Val Cys Val
 65 70 75 80

Cys Val Cys Val Cys Val Cys Val Cys Val Ile Cys Val His Ala Ser
 85 90 95

Val His Ile Pro
 100

<210> 298
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 298
 Cys Val Tyr Ala Gly Gln Arg Thr Thr Ser Asp Val Gly Pro His Leu
 1 5 10 15

Pro Ser Cys Ser Lys Leu Asp Ile Leu Phe Thr Ser Ala Tyr Asn Lys
 20 25 30

Pro Asp

<210> 299

<211> 48

<212> PRT

<213> Homo sapiens

<400> 299

Leu	Thr	His	Lys	Ser	Trp	Ala	Gly	Leu	Leu	Ser	Gln	Pro	Pro	Val	Ser
1				5					10					15	

Trp	Phe	Glu	Ala	Phe	Trp	Asn	Leu	Gln	Ile	Ser	Leu	Ile	Ser	Asn	Ser
			20					25						30	

Cys	Ser	Pro	Gly	Asp	Pro	Leu	Val	Leu	Glu	Arg	Pro	Pro	Pro	Arg	Glu
		35					40					45			